

Chameye E300

Chameye NDI PTZ Camera Controller E300 Instruction Manual

Model: E300

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1. INTRODUCTION

The Chameye NDI PTZ Camera Controller E300 is a versatile network keyboard designed for controlling PTZ (Pan-Tilt-Zoom) cameras. It supports various protocols including IP VISCA, PELCO-P, PELCO-D, RS232, RS422, RS485, and Ethernet IP connections, making it compatible with a wide range of PTZ cameras, including NDI and HDMI models. This controller is ideal for professional video production environments such as church worship services, educational institutions, broadcasting, conferences, and live streaming events. Key features include a 3-inch LCD for video preview, a 4D joystick for precise control, PoE support for simplified cabling, and the ability to manage up to 255 cameras with 7 quick selection shortcut keys.

2. SAFETY INFORMATION

- Ensure the controller is connected to a stable power source. If using Power over Ethernet (PoE), verify your network switch supports PoE (802.3AF 48V).
- Do not expose the device to moisture, rain, or extreme temperatures.
- Avoid placing heavy objects on the controller.
- Use only the provided power adapter or a compatible PoE switch.
- Keep the device away from strong electromagnetic fields.
- For cleaning, use a soft, dry cloth. Do not use liquid or aerosol cleaners.
- Do not attempt to disassemble or repair the unit yourself. Refer to qualified service personnel.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Chameye NDI PTZ Camera Controller E300
- Power Adapter
- Serial Cable (DB9)

- User Manual

Note: The serial cable is included for legacy connections but is generally not used for modern IP-based control.

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Video: Chameye PTZ Camera Controller E300 Unboxing and Initial Overview

This video provides an unboxing experience of the Chameye PTZ Camera Controller E300, showcasing its packaging and initial components. It highlights the inclusion of the power adapter and serial cable, and briefly discusses the controller's general features and compatibility with various PTZ cameras.

4. PRODUCT OVERVIEW

The Chameye E300 controller features a robust design with intuitive controls for efficient PTZ camera management.

4.1 Key Components

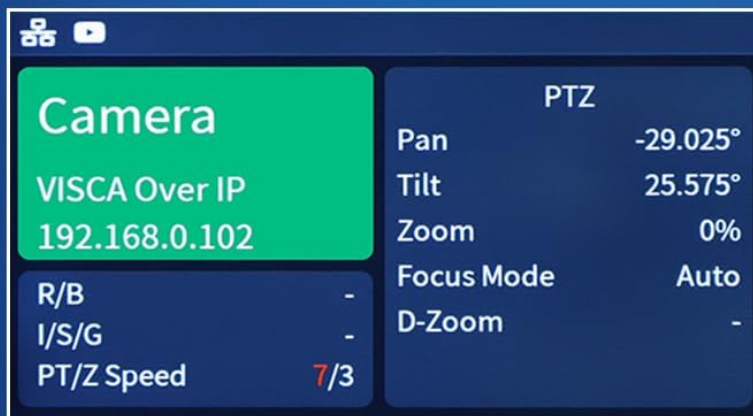
- **3-inch LCD Preview Display:** Provides real-time video preview of the currently selected camera and displays camera parameters (Pan, Tilt, Zoom, Focus Mode, PTZ Speed).
- **4D Joystick:** Enables precise and smooth control over Pan, Tilt, and Zoom functions.
- **Control Knobs:** Dedicated knobs for adjusting PTZ Speed, Focus (Near/Far), Iris, and Gain.
- **Quick Camera Select Buttons (CAM 1-7):** Seven dedicated buttons for quickly switching between connected cameras.
- **Function Keys (F1/F2):** Customizable keys for programmable settings, such as turning AI Auto-tracking on or off.
- **Numeric Keypad:** For entering camera IDs, preset numbers, and other numerical inputs.
- **PVW Button:** Activates the video preview on the 3-inch LCD.

Chameye 3-Inch LCD screen



**Preview
Camera's
Image**

TWO PREVIEW MODES



**Show
Parameter**



Image: Chameye E300 Controller with LCD Preview

This image displays the Chameye E300 controller, highlighting its 3-inch LCD screen which shows a live video preview from a connected camera and real-time camera parameters like pan, tilt, and zoom settings.

Variable **4D** joystick for Precise Control

The 4D Joystick delivers precise, smooth control over pan, tilt, zoom, and focus—critical for dynamic live productions.



Image: 4D Joystick Control

A close-up of the 4D joystick on the Chameye E300 controller, illustrating its multi-directional movement for precise pan, tilt, and zoom adjustments.

4.2 Rear Panel Interfaces

- **LAN Port (PoE):** Ethernet connection for network control and Power over Ethernet.
- **RS232, RS422/485 Interfaces:** Serial ports for traditional PTZ camera control.
- **Power Input (DC 12V):** For external power supply if PoE is not used.
- **Tally Interface:** For connecting tally lights.
- **USB Interface:** Reserved interface (no function).

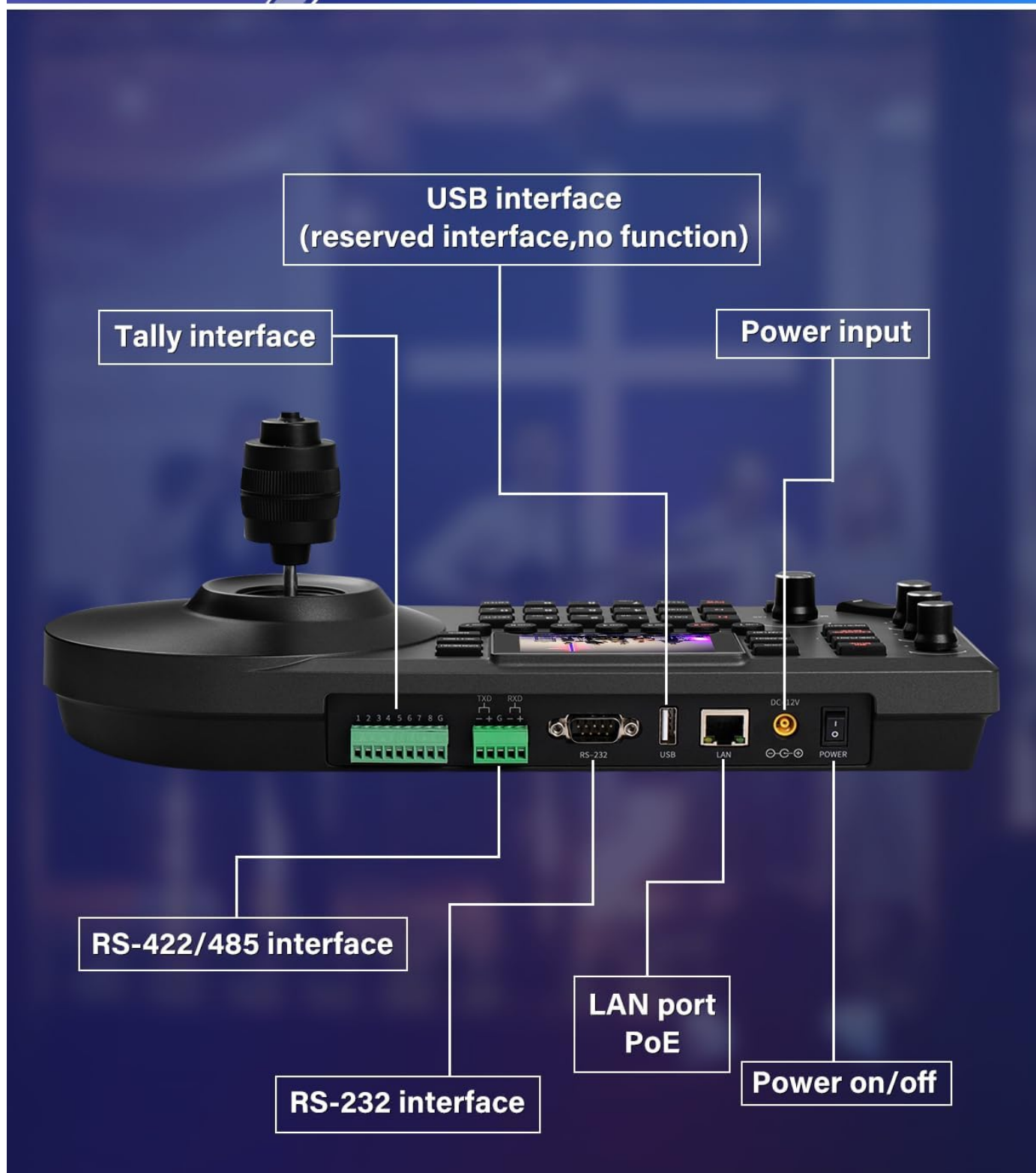


Image: Rear Panel Interfaces

This image shows the rear panel of the Chameye E300 controller, detailing the various ports including LAN (PoE), RS232, RS422/485, power input, and tally interface.

5. SETUP

5.1 Connection Diagram

Connect the Chameye E300 controller to your network using an Ethernet cable. If your network switch supports Power over

Ethernet (PoE), a single Ethernet cable can provide both power and control. Ensure the controller and all PTZ cameras are connected to the same Local Area Network (LAN) and are within the same IP address segment for proper communication.



Image: Connection Diagram

A visual representation of how to connect the Chameye E300 controller to multiple PTZ cameras via a PoE switch and a router, illustrating a typical network setup for multi-camera control.

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Video: Chameye PTZ Camera Controller E300 Setup Overview

This video demonstrates the physical connection of the Chameye E300 controller to a network via PoE and its initial power-up sequence. It

shows the controller's display loading and the process of searching for and adding a camera to the device list.

5.2 Network Configuration and Camera Detection

Upon powering on, the controller will display a loading screen. To connect cameras:

1. Press the **SEARCH** button on the controller. The controller will automatically search for compatible PTZ cameras on the network.
2. Once cameras are detected, their IP addresses will be displayed. Use the joystick or navigation buttons to select the desired camera.
3. Press **ENTER** to view camera information.
4. To assign a camera to a quick select button, navigate to "Add to Shortcut Keys" and select an available **CAM** button (e.g., CAM 1).

Note: For optimal performance, ensure both the controller and cameras are configured for DHCP or have static IP addresses within the same subnet. If using static IPs, manually configure them to avoid conflicts.



Web Configuration

Access the webpage via the IP address of E300 Controller, which supports parameter configuration and device firmware upgrades.

Image: Web Configuration Interface

This image shows the web-based configuration interface for the Chameye E300 controller, accessible via its IP address. This interface allows for detailed parameter configuration and firmware upgrades.

6. OPERATING INSTRUCTIONS

6.1 Basic PTZ Control

- **Pan/Tilt:** Move the 4D joystick left/right for pan, and up/down for tilt.
- **Zoom:** Twist the top of the 4D joystick or use the **TELE/WIDE** rocker switch for zooming in and out.
- **Focus:** Use the **NEAR/FAR** knob to manually adjust focus. Press **AUTO** to enable auto-focus.
- **PTZ Speed:** Adjust the speed of pan, tilt, and zoom movements using the dedicated **PTZ SPEED** knob (levels 1-7).

Chameye

PTZ Controller

4D JOYSTICK

Home key



Image: 4D Joystick for Precise Control

The 4D joystick is shown with arrows indicating its pan, tilt, and zoom capabilities, allowing for dynamic and smooth camera movements.



Image: PTZ Speed Adjustment

A close-up of the PTZ Speed adjustment knob on the controller, indicating how users can fine-tune the speed of camera movements.

6.2 Preset Management

- **Store Preset:** Position the camera to the desired view. Press the **STORE** button, then press a number (0-9) on the keypad to save the preset.
- **Call Preset:** Press the **CALL** button, then press the corresponding number (0-9) on the keypad to recall a saved preset.

6.3 Camera Parameter Adjustment

Use the dedicated knobs for **IRIS** and **GAIN** to adjust image brightness and sensitivity. The **WB MODE** and **EXPOSURE MODE** buttons allow for quick adjustments to white balance and exposure settings.

6.4 AI Auto-Tracking

The controller supports turning AI Auto-tracking on/off for compatible Chameye PTZ cameras. This can be configured via the customizable **F1/F2** keys or through the camera's on-screen menu (OSD) or web interface. Command codes for AI tracking vary by camera model; refer to your camera's manual for specific codes.

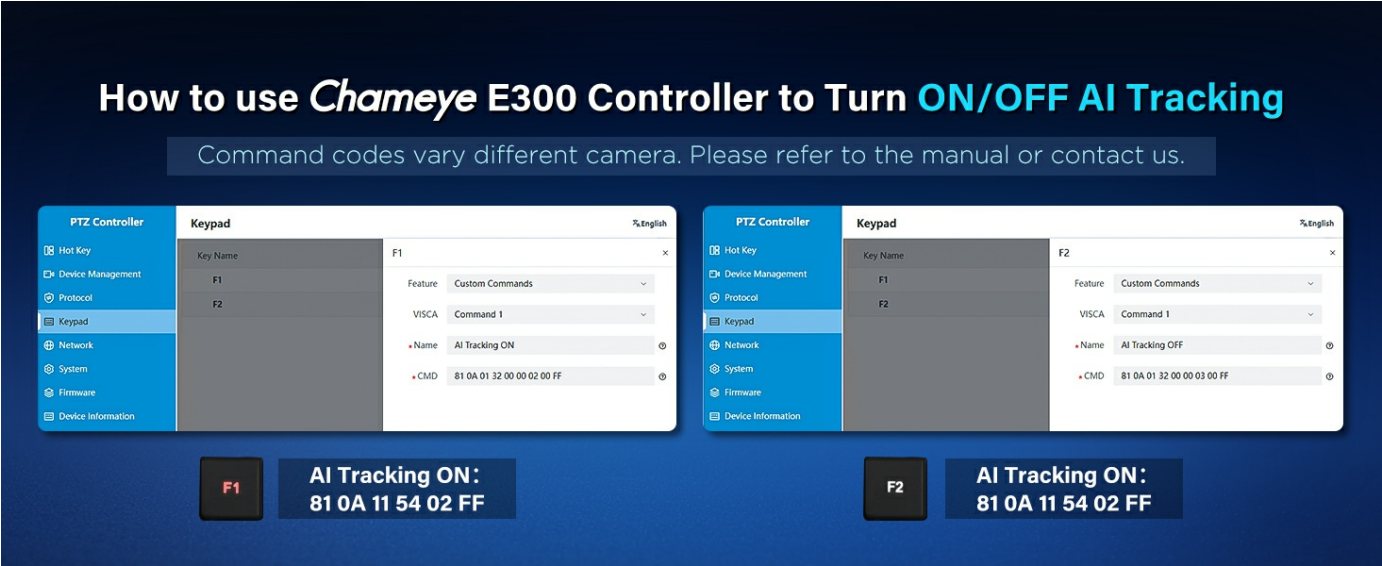


Image: Customize F1/F2 for AI Tracking

This image illustrates how the F1 and F2 keys on the controller can be customized to send specific commands, such as turning AI tracking on or off, to a connected PTZ camera.

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Video: Chameye AI Tracking HDMI PTZ Camera Demonstration

This video demonstrates the AI tracking capabilities of a Chameye PTZ camera, which can be controlled and activated via the E300 controller. It shows the camera automatically following a subject, highlighting the practical application of the AI feature.

7. MAINTENANCE

- **Cleaning:** Regularly wipe the controller's surface with a soft, dry cloth to remove dust and debris. Avoid abrasive materials or harsh chemicals.
- **Firmware Updates:** Check the Chameye website periodically for firmware updates. Updates can be applied via the controller's web configuration interface to improve performance and add new features.
- **Storage:** When not in use for extended periods, store the controller in a cool, dry place, protected from dust and direct sunlight.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Controller not powering on.	No power, faulty cable, or PoE issue.	Check power adapter connection or ensure PoE switch is active and functional.
Cannot find cameras on the network.	Network configuration error, cameras not powered, or not on the same subnet.	Verify all devices are on the same LAN and IP address segment. Ensure cameras are powered on. Try resetting both controller and cameras to factory defaults and enabling DHCP.

Problem	Possible Cause	Solution
Camera control is unresponsive or erratic.	Network latency, incorrect protocol settings, or firmware issue.	Check network connection stability. Verify the correct control protocol (e.g., VISCA over IP) is selected. Update firmware if available.
Video preview not showing on LCD.	Camera not selected, network issue, or camera not streaming.	Ensure a camera is selected and actively streaming. Check network connectivity. Press the PVW button.

9. SPECIFICATIONS

- **Model Number:** E300
- **Product Dimensions:** 16.54 x 7.87 x 5.51 inches
- **Item Weight:** 3.89 pounds
- **Brand:** Chameye
- **Special Feature:** 3-inch LCD Screen, 4D Joystick, PoE
- **Color:** Black
- **Max Number of Supported Devices:** 255
- **Compatible Devices:** PTZ Cameras (supporting VISCA, PELCO-P & D protocol, RS232, RS422, RS485, and Ethernet IP connections)

10. WARRANTY & SUPPORT

The Chameye NDI PTZ Camera Controller E300 comes with a **3-Year Limited Warranty**. Chameye offers **Lifetime Online Support**, with a guarantee of responses within 24 hours to resolve any issues quickly and effectively. Additionally, a 30-day money-back guarantee is provided for risk-free shopping.

For support, please refer to the contact information provided in your product packaging or visit the official Chameye website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question